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**From:** Logan, Paul [Logan.Paul@epa.gov]  
**Sent:** 7/6/2020 4:27:21 PM  
**To:** Wirick, Holiday [wirick.holiday@epa.gov]  
**Subject:** RE: DB - water quality questions

Holly, could we talk between 10:45 and 11? If yes, I'll call you then.

**Paul Logan**

Senior Assistant Regional Counsel | EPA Region 8, Office of Regional Counsel  
303.312.6854 | [logan.paul@epa.gov](mailto:logan.paul@epa.gov)

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**From:** Wirick, Holiday <[wirick.holiday@epa.gov](mailto:wirick.holiday@epa.gov)>  
**Sent:** Friday, July 3, 2020 12:44 PM  
**To:** Logan, Paul <[Logan.Paul@epa.gov](mailto:Logan.Paul@epa.gov)>  
**Subject:** Re: DB - water quality questions

Sure Paul. I'm working Monday until noon.

Have a great holiday weekend!

Holly Wirick  
Water Quality Section  
303-312-6238

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**From:** Logan, Paul <[Logan.Paul@epa.gov](mailto:Logan.Paul@epa.gov)>  
**Sent:** Thursday, July 2, 2020 4:24 PM  
**To:** Wirick, Holiday <[wirick.holiday@epa.gov](mailto:wirick.holiday@epa.gov)>; Benson, Bob <[Benson.Bob@epa.gov](mailto:Benson.Bob@epa.gov)>  
**Cc:** Volk, Everett <[volk.everett@epa.gov](mailto:volk.everett@epa.gov)>; Chin, Lucita <[Chin.Lucita@epa.gov](mailto:Chin.Lucita@epa.gov)>; Perkins, Erin <[Perkins.Erin@epa.gov](mailto:Perkins.Erin@epa.gov)>;  
Todd, Andrew <[Todd.Andrew@epa.gov](mailto:Todd.Andrew@epa.gov)>  
**Subject:** RE: DB - water quality questions

Thanks very much, Holly. I may call you next week with a couple of follow up questions.

Happy 4<sup>th</sup>!

**Paul Logan**

Senior Assistant Regional Counsel | EPA Region 8, Office of Regional Counsel  
303.312.6854 | [logan.paul@epa.gov](mailto:logan.paul@epa.gov)

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**From:** Wirick, Holiday <[wirick.holiday@epa.gov](mailto:wirick.holiday@epa.gov)>  
**Sent:** Thursday, July 2, 2020 2:40 PM  
**To:** Logan, Paul <[Logan.Paul@epa.gov](mailto:Logan.Paul@epa.gov)>; Benson, Bob <[Benson.Bob@epa.gov](mailto:Benson.Bob@epa.gov)>  
**Cc:** Volk, Everett <[volk.everett@epa.gov](mailto:volk.everett@epa.gov)>; Chin, Lucita <[Chin.Lucita@epa.gov](mailto:Chin.Lucita@epa.gov)>; Perkins, Erin <[Perkins.Erin@epa.gov](mailto:Perkins.Erin@epa.gov)>;  
Todd, Andrew <[Todd.Andrew@epa.gov](mailto:Todd.Andrew@epa.gov)>  
**Subject:** Re: DB - water quality questions

**Ex. 5 AC/DP**

# Ex. 5 AC/DP

I hope this information helps. If I find additional studies, I'll let you know. Please feel free to call me with any questions you may have.

Have a great 4th!

Holly Wirick  
Water Quality Section  
303-312-6238

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**From:** Logan, Paul <[Logan.Paul@epa.gov](mailto:Logan.Paul@epa.gov)>  
**Sent:** Thursday, July 2, 2020 11:00 AM  
**To:** Wirick, Holiday <[wirick.holiday@epa.gov](mailto:wirick.holiday@epa.gov)>; Benson, Bob <[Benson.Bob@epa.gov](mailto:Benson.Bob@epa.gov)>  
**Cc:** Volk, Everett <[volk.everett@epa.gov](mailto:volk.everett@epa.gov)>; Chin, Lucita <[Chin.Lucita@epa.gov](mailto:Chin.Lucita@epa.gov)>; Perkins, Erin <[Perkins.Erin@epa.gov](mailto:Perkins.Erin@epa.gov)>  
**Subject:** RE: DB - water quality questions

Thanks Erin.

Holly and Bob,

# Ex. 5 AC/DP

# Ex. 5 AC/DP

Thanks in advance for any thoughts you can offer!

**Paul Logan**

Senior Assistant Regional Counsel | EPA Region 8, Office of Regional Counsel  
303.312.6854 | [logan.paul@epa.gov](mailto:logan.paul@epa.gov)

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**From:** Perkins, Erin <[Perkins.Erin@epa.gov](mailto:Perkins.Erin@epa.gov)>

**Sent:** Wednesday, July 1, 2020 8:47 AM

**To:** Logan, Paul <[Logan.Paul@epa.gov](mailto:Logan.Paul@epa.gov)>

**Cc:** Volk, Everett <[volk.everett@epa.gov](mailto:volk.everett@epa.gov)>; Chin, Lucita <[Chin.Lucita@epa.gov](mailto:Chin.Lucita@epa.gov)>; Wirick, Holiday <[wirick.holiday@epa.gov](mailto:wirick.holiday@epa.gov)>

**Subject:** FW: DB - water quality questions

Hi –

Holly, I'm passing along to Paul as this is his questions. Paul - Is it possible for you to provide additional information to Bob and Holly to help answer your questions?

Thanks,  
Erin

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**From:** Wirick, Holiday <[wirick.holiday@epa.gov](mailto:wirick.holiday@epa.gov)>

**Sent:** Wednesday, July 1, 2020 8:43 AM

**To:** Perkins, Erin <[Perkins.Erin@epa.gov](mailto:Perkins.Erin@epa.gov)>

**Subject:** Fw: DB - water quality questions

Hi Erin, I hope all is well. I work on SD's WQS and will do my best to address this issue with Bob's (and possibly others') assistance. Please see Bob Benson's questions below. Thanks.

I'll be available after the all-hands call this morning.

Talk with you soon,  
Holly

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**From:** Benson, Bob <[Benson.Bob@epa.gov](mailto:Benson.Bob@epa.gov)>  
**Sent:** Wednesday, July 1, 2020 8:38 AM  
**To:** Todd, Andrew <[Todd.Andrew@epa.gov](mailto:Todd.Andrew@epa.gov)>; Wirick, Holiday <[wirick.holiday@epa.gov](mailto:wirick.holiday@epa.gov)>  
**Cc:** Wall, Dan <[wall.dan@epa.gov](mailto:wall.dan@epa.gov)>; Fritz, Jason <[Fritz.Jason@epa.gov](mailto:Fritz.Jason@epa.gov)>  
**Subject:** RE: DB - water quality questions

I am willing to take on this issue.

## Ex. 5 Deliberative Process (DP)

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**From:** Todd, Andrew <[Todd.Andrew@epa.gov](mailto:Todd.Andrew@epa.gov)>  
**Sent:** Wednesday, July 1, 2020 7:54 AM  
**To:** Benson, Bob <[Benson.Bob@epa.gov](mailto:Benson.Bob@epa.gov)>  
**Subject:** FW: DB - water quality questions

Good Morning Bob:

Curious if you have any experience with radium in drinking water, per Erin's request / questions below? If you do, and have the time to give this some thought, let me know. Happy to reach out to Dan to get his thumbs up to engage you on this if'n you are interested.

Hope all is well with you.

AT

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**From:** Perkins, Erin <[Perkins.Erin@epa.gov](mailto:Perkins.Erin@epa.gov)>  
**Sent:** Wednesday, July 1, 2020 7:27 AM  
**To:** Todd, Andrew <[Todd.Andrew@epa.gov](mailto:Todd.Andrew@epa.gov)>  
**Cc:** Logan, Paul <[Logan.Paul@epa.gov](mailto:Logan.Paul@epa.gov)>; Volk, Everett <[volk.everett@epa.gov](mailto:volk.everett@epa.gov)>; Chin, Lucita <[Chin.Lucita@epa.gov](mailto:Chin.Lucita@epa.gov)>  
**Subject:** FW: DB - water quality questions

Hi Andrew –

I'm wondering if you (or someone on your staff) might be able to help us with the questions Paul raises below regarding applicability of SD's WQS? This is in relation to the Dewey Burdock UIC permitting/Aquifer Exemption action that Region 8 has in front of us right now. I'm not certain who is currently handling WQS for SD? Also, what do you think about bringing in Bob Benson on the question of safe use of water re. radium?

Thanks,  
Erin

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**From:** Logan, Paul <[Logan.Paul@epa.gov](mailto:Logan.Paul@epa.gov)>  
**Sent:** Monday, June 29, 2020 4:06 PM  
**To:** Perkins, Erin <[Perkins.Erin@epa.gov](mailto:Perkins.Erin@epa.gov)>; Volk, Everett <[volk.everett@epa.gov](mailto:volk.everett@epa.gov)>  
**Subject:** DB - water quality questions

# Ex. 5 AC/DP

**Paul Logan**

Senior Assistant Regional Counsel | EPA Region 8, Office of Regional Counsel  
303.312.6854 | [logan.paul@epa.gov](mailto:logan.paul@epa.gov)